

FIG.1A

INFORMATION FROM OPERATING UNIT IS
CONVERTED AND ASIC SETTING IS PERFORMED

CONVENTIONAL ASIC CONTROLLLER

FIG.1B

TRANSLATING UNIT THAT TRANSLATES
INFORMATION FROM OPERATING UNIT TO INFORMATION
THAT IS RECOGNIZED BY DSP CONTROLLER

DOWNLOAD REQUEST UNIT THAT MAKES
REQUEST FOR DOWNLOAD TO DSP BASED ON
INFORMATION TRANSLATED

NEW DSP CONTROLLER

FIG.2

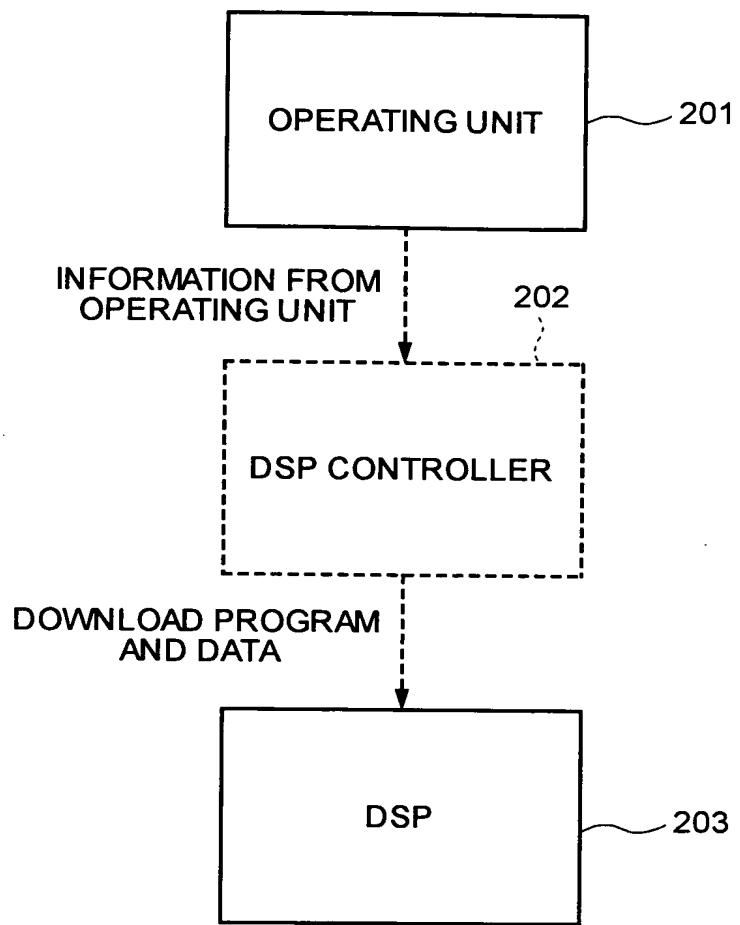


FIG.3

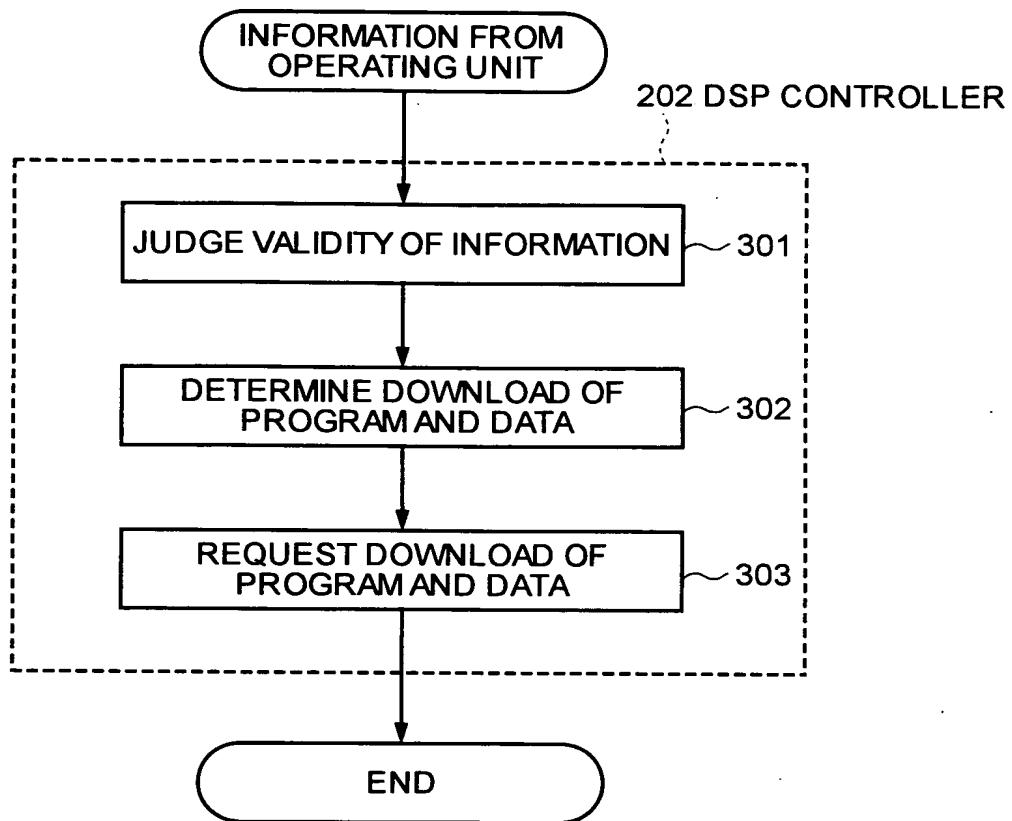


FIG.4

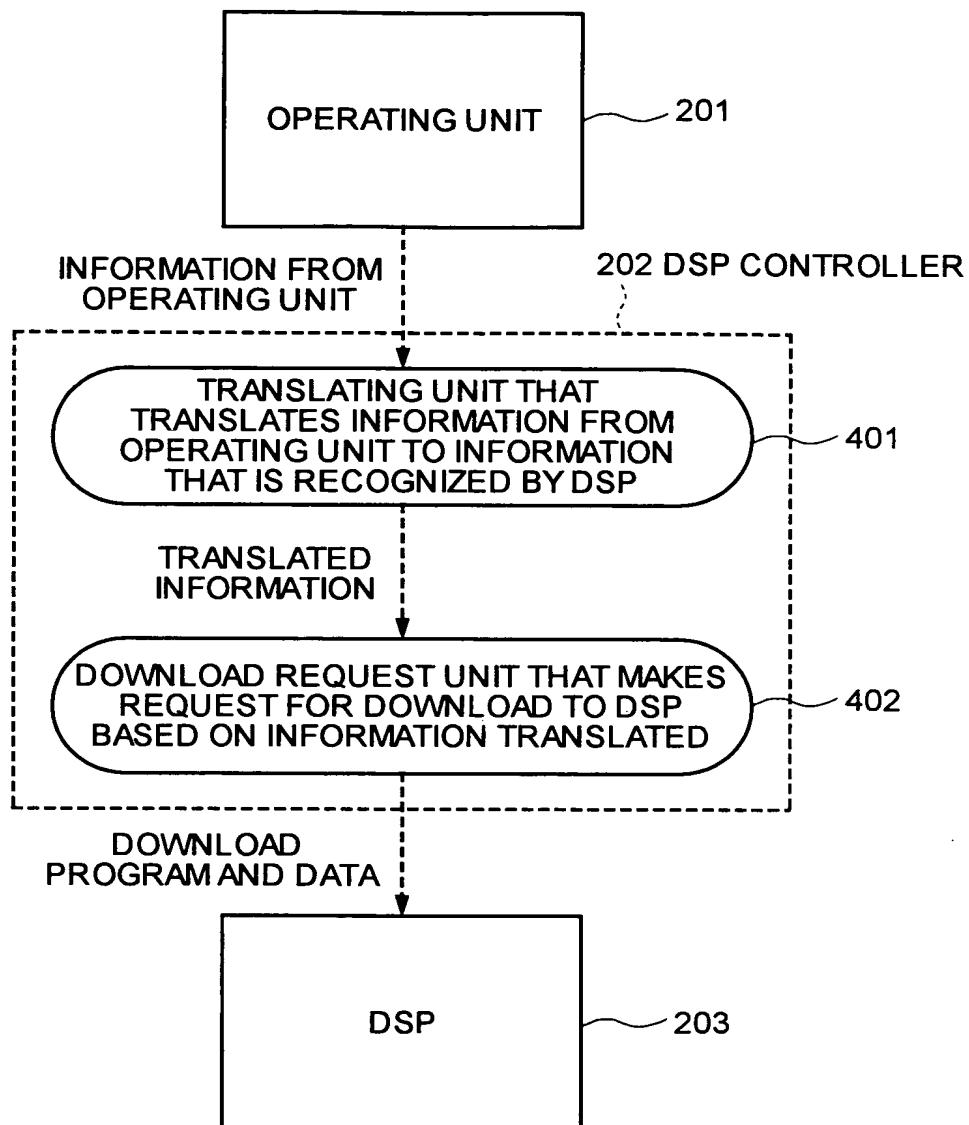


FIG.5

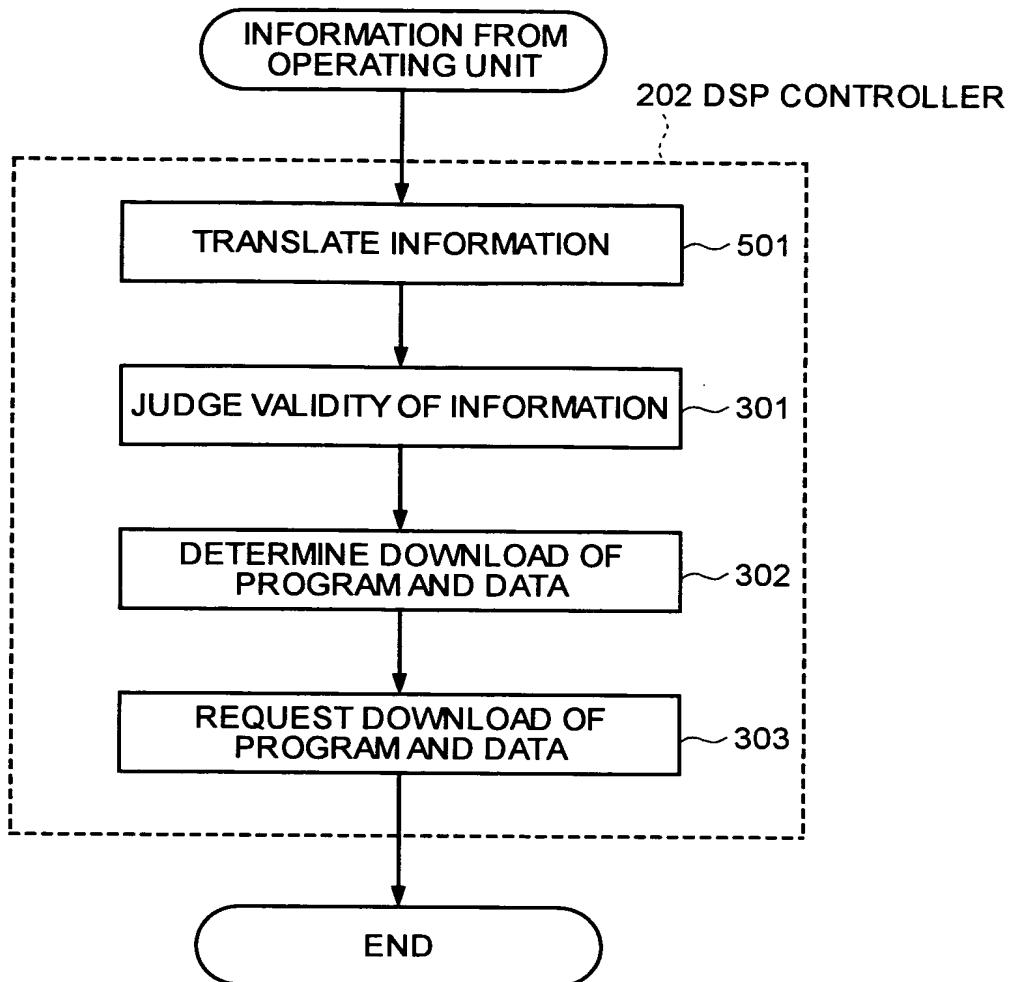
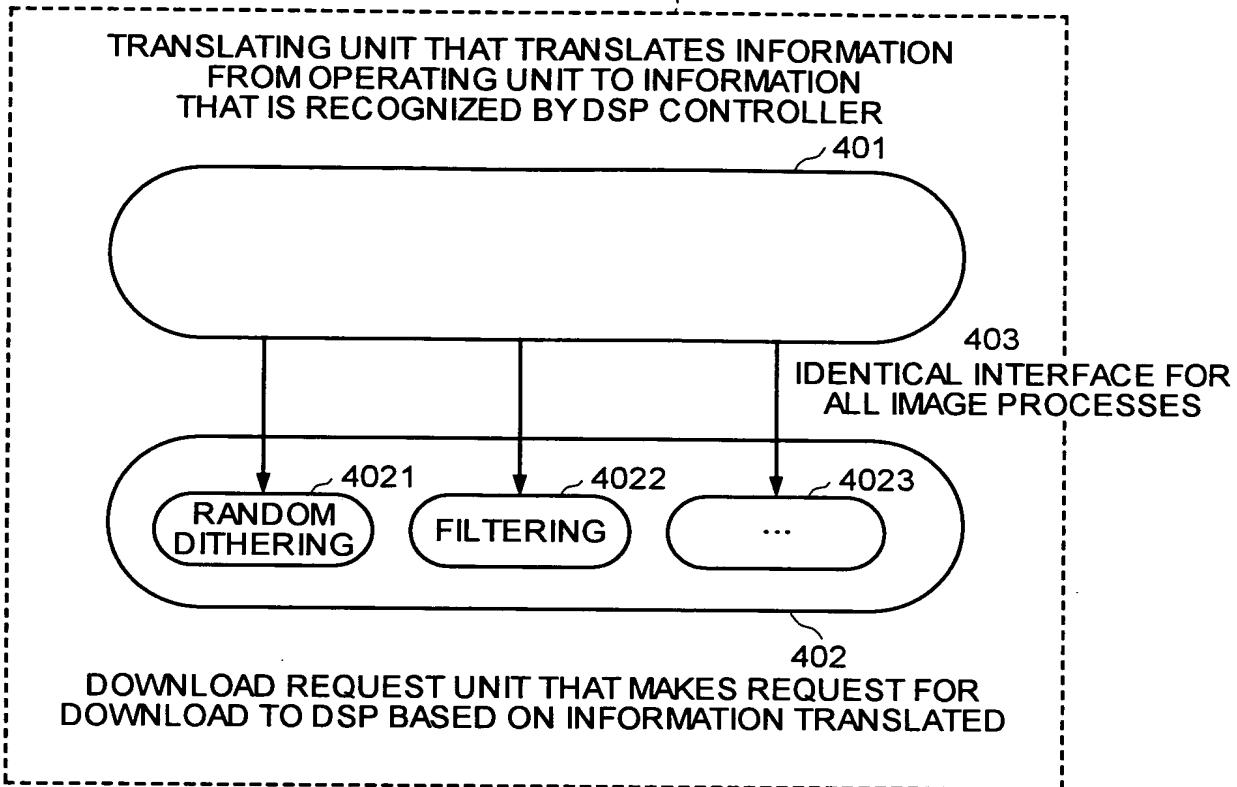


FIG.6

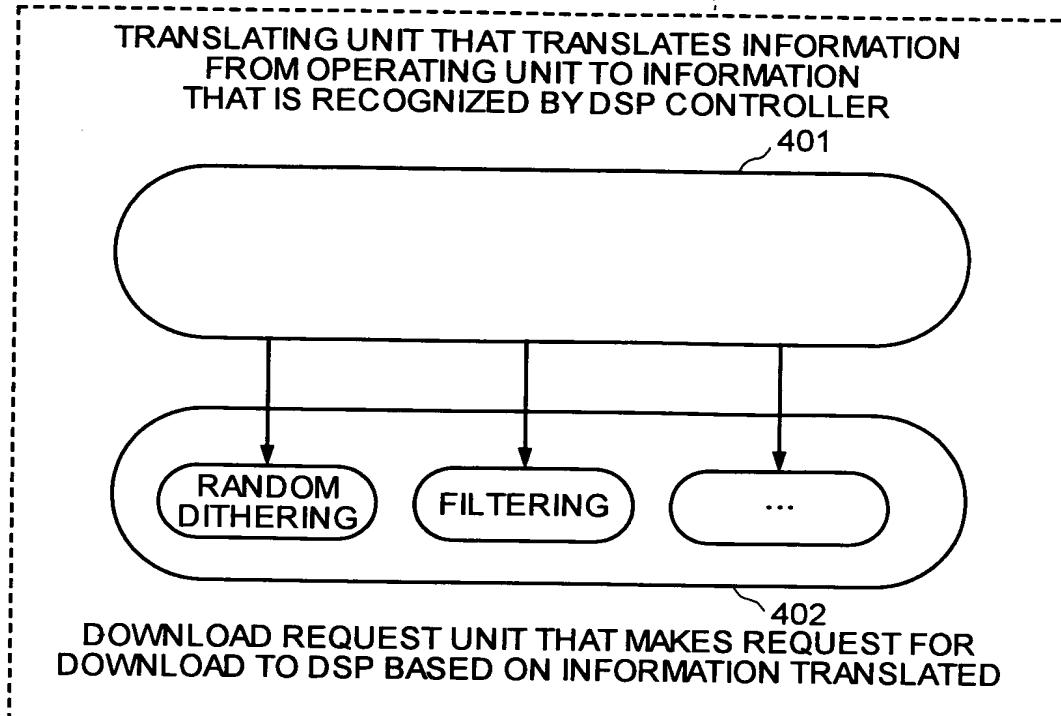
202 DSP CONTROLLER



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FIG.7A

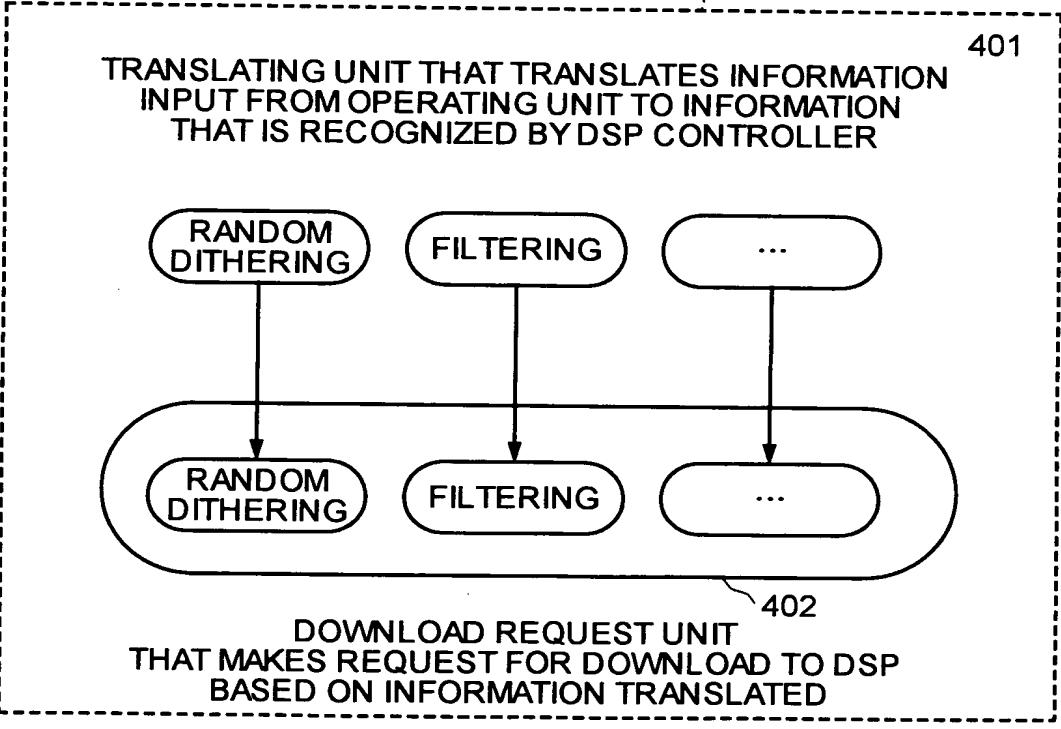
202 DSP CONTROLLER



CASE OF PERFORMING CENTRAL MANAGEMENT

FIG.7B

202 DSP CONTROLLER



CASE OF PERFORMING MANAGEMENT FOR EACH IMAGE PROCESSING

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FIG.8

```
const u_char Tbl[REQUEST LEVEL 1]
REQUEST LEVEL 2] [REQUEST LEVEL 3] [2] = {
{
  { {P2,D2}, {P2,D2}, {P2,D2}, {P2,D2}, },
  { {P0,D0}, {P0,D0}, {P0,D0}, {P0,D0}, },
  { {P3,D3}, {P3,D3}, {P3,D3}, {P3,D3}, }
},
{
  { {P4,D4}, {P4,D4}, {P4,D4}, {P4,D4}, },
  { {P5,D5}, {P5,D5}, {P5,D5}, {P5,D5}, },
  { {P6,D6}, {P6,D6}, {P6,D6}, {P6,D6}, }
},
{
  { {P7,D7}, {P7,D7}, {P7,D7}, {P7,D7}, },
  { {P8,D8}, {P8,D8}, {P8,D8}, {P8,D8}, },
  { {P9,D9}, {P9,D9}, {P9,D9}, {P9,D9}, }
},
{
  { {P10,D10}, {P10,D10}, {P10,D10}, {P10,D10}, },
  { {P11,D11}, {P11,D11}, {P11,D11}, {P11,D11}, },
  { {P12,D12}, {P12,D12}, {P12,D12}, {P12,D12}, }
},
{
  { {P13,D13}, {P13,D13}, {P13,D13}, {P13,D13}, },
  { {P14,D14}, {P14,D14}, {P14,D14}, {P14,D14}, },
  { {P15,D15}, {P15,D15}, {P15,D15}, {P15,D15}, }
},
},
```

FIG.9

```
const u_char Prog_Tbl [5] [16] = {
/* P0 P1 P2 P3 P4 P5 P6 P7 P8 P9 P10 P11 P12 P13 P14 P15 */
{ 29, 1, 29, 0, 3, 5, 5, 5, 5, 28, 28, 28, 29, 29, 29, },
{ 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, },
{ 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, },
{ 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, },
{ 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, }
```

FIG.10

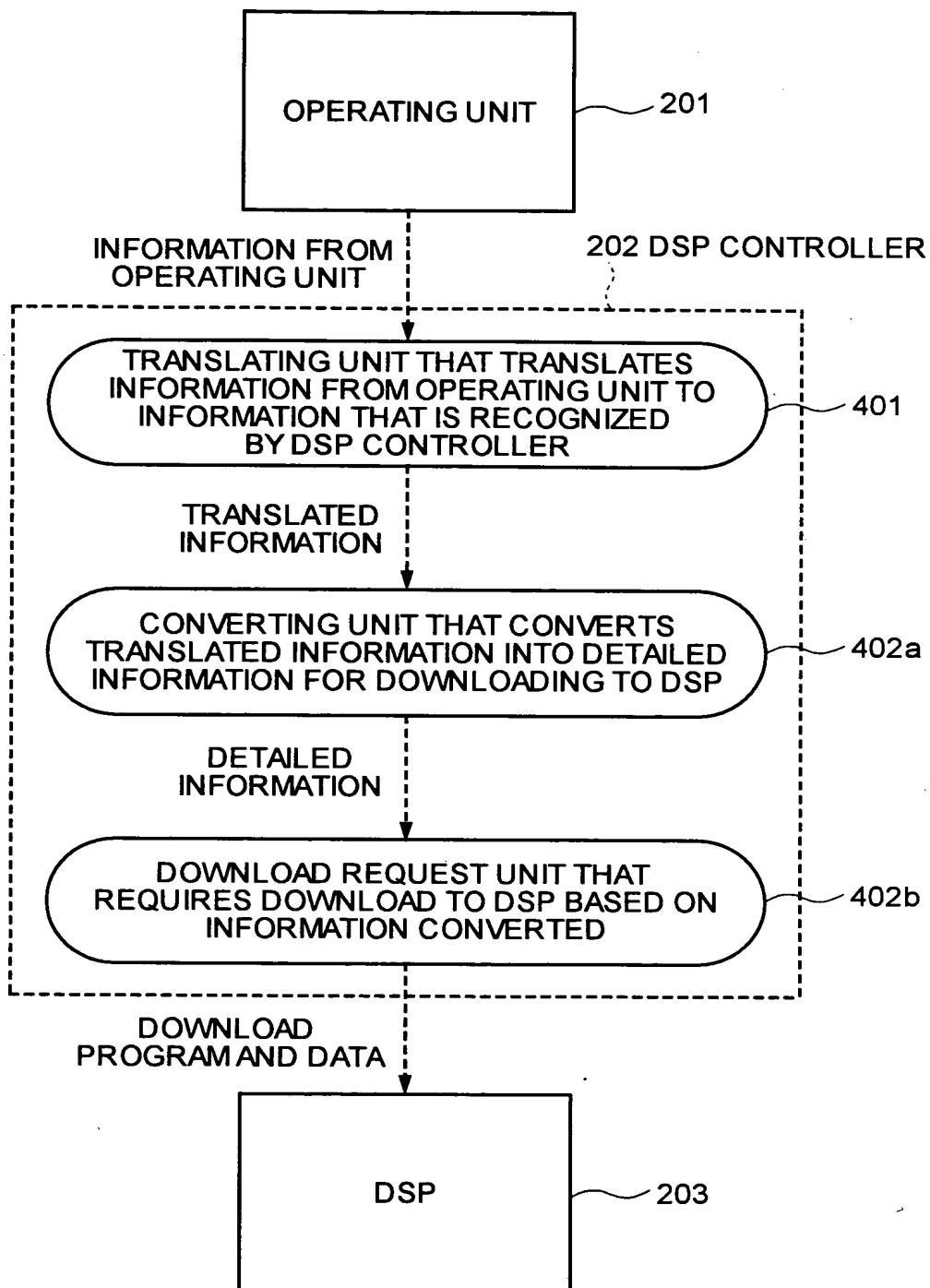


FIG.11

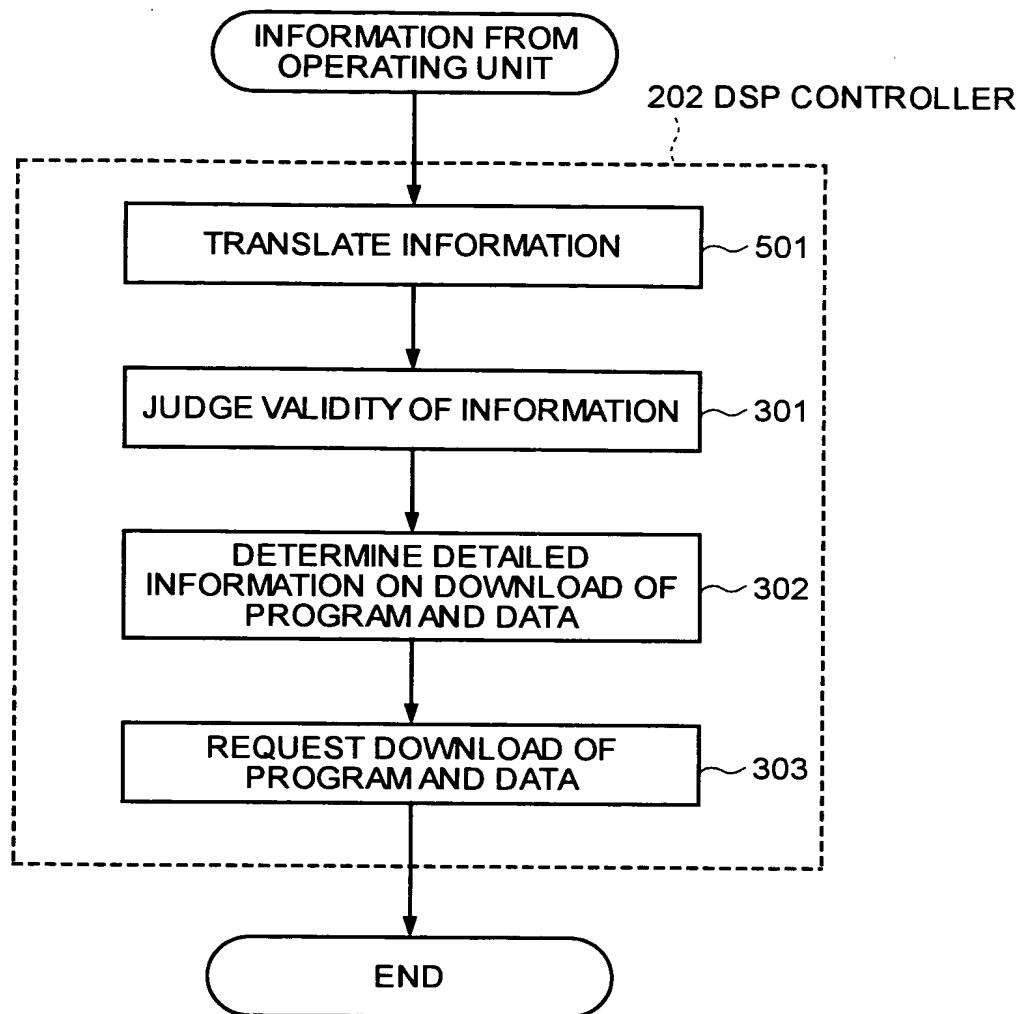


FIG. 12

202 DSP CONTROLLER

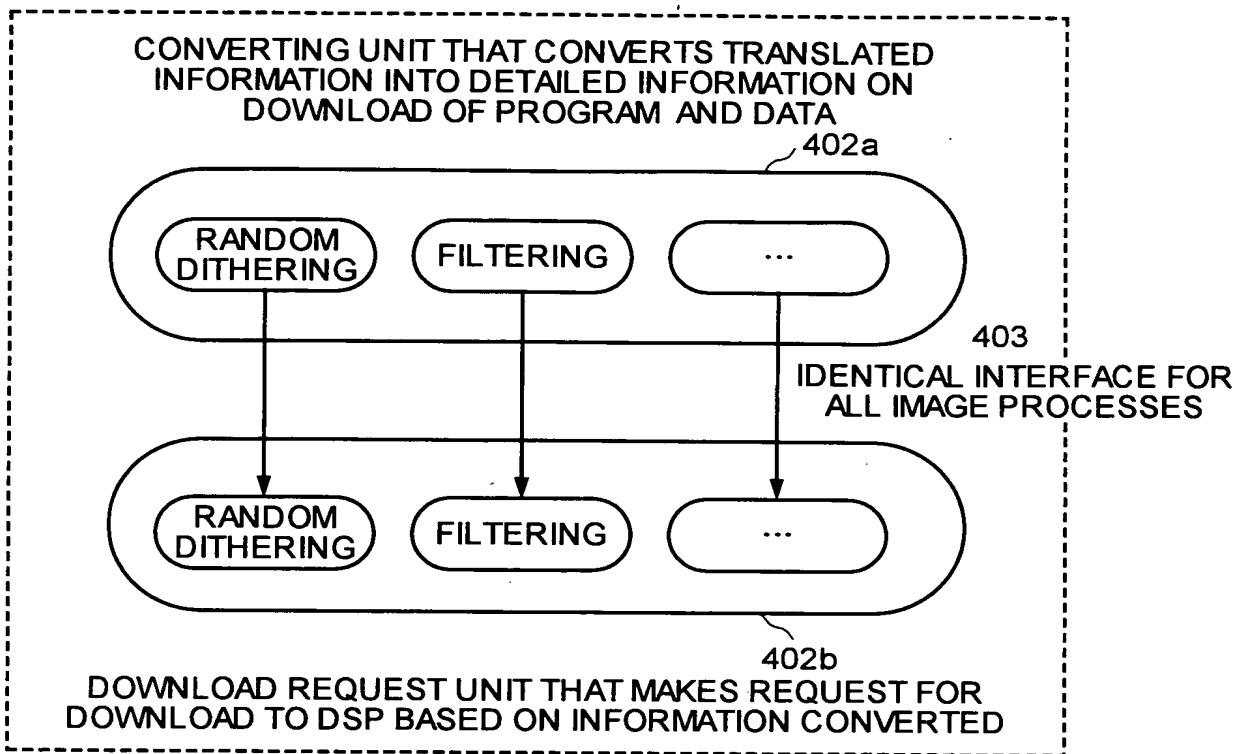
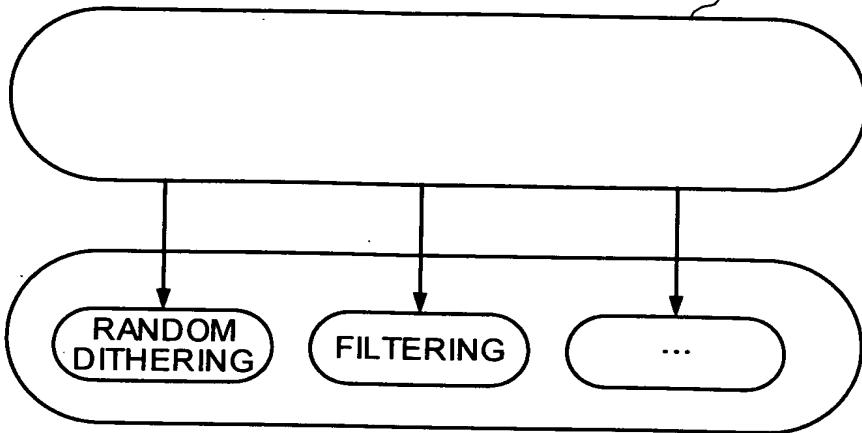


FIG.13A

202 DSP CONTROLLER

TRANSLATING UNIT THAT TRANSLATES INFORMATION
FROM OPERATING UNIT TO INFORMATION
THAT IS RECOGNIZED BY DSP CONTROLLER

401



CONVERTING UNIT THAT CONVERTS TRANSLATED
INFORMATON INTO DETAILED INFORMATION ON
DOWNLOAD OF PROGRAM AND DATA

402a

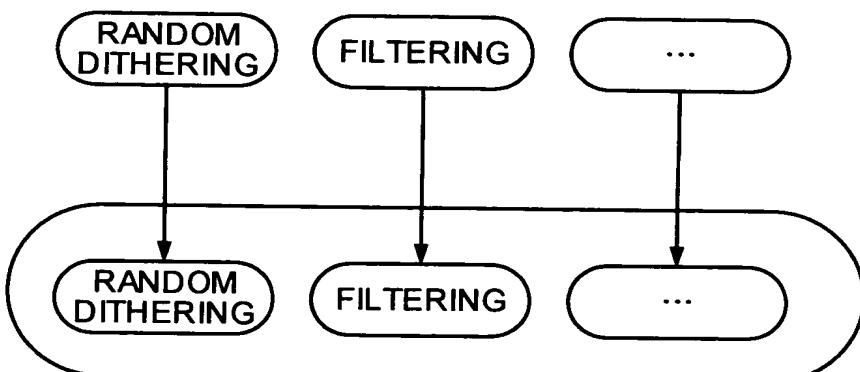
CASE OF PERFORMING CENTRAL MANAGEMENT

FIG.13B

202 DSP CONTROLLER

401

TRANSLATING UNIT THAT TRANSLATES INFORMATION
FROM OPERATING UNIT TO INFORMATION
THAT IS RECOGNIZED BY DSP CONTROLLER



CONVERTING UNIT THAT CONVERTS TRANSLATED
INFORMATON INTO DETAILED INFORMATION ON
DOWNLOAD OF PROGRAM AND DATA

402a

CASE OF PERFORMING MANAGEMENT FOR EACH IMAGE PROCESSING

FIG. 14

202 DSP CONTROLLER

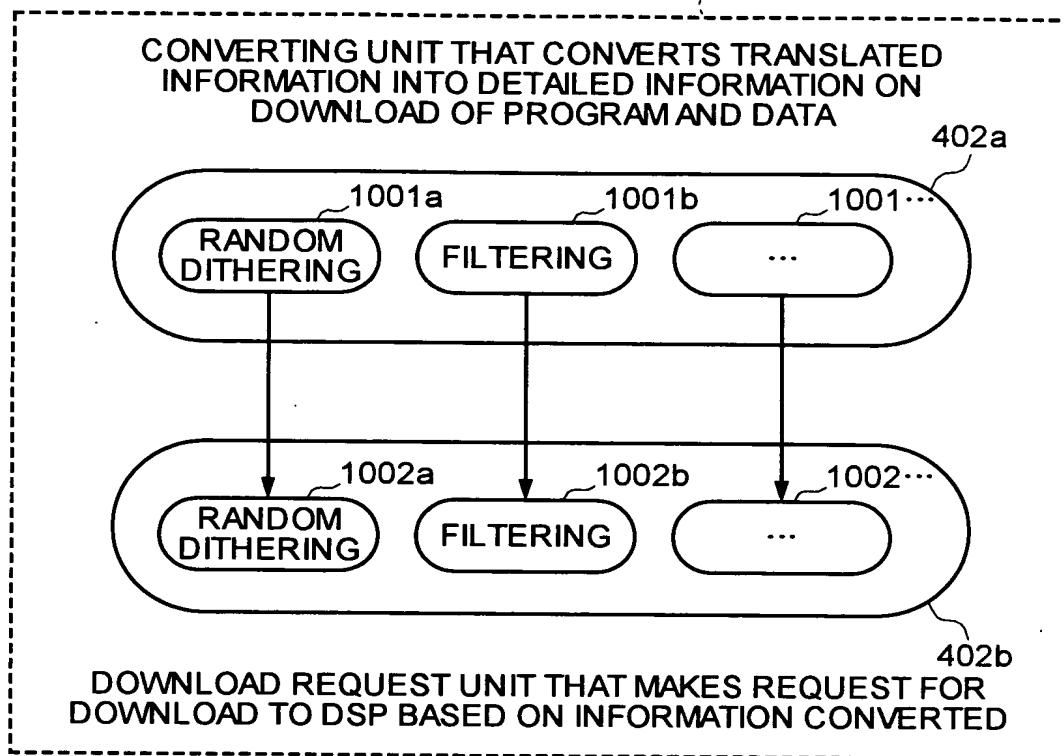
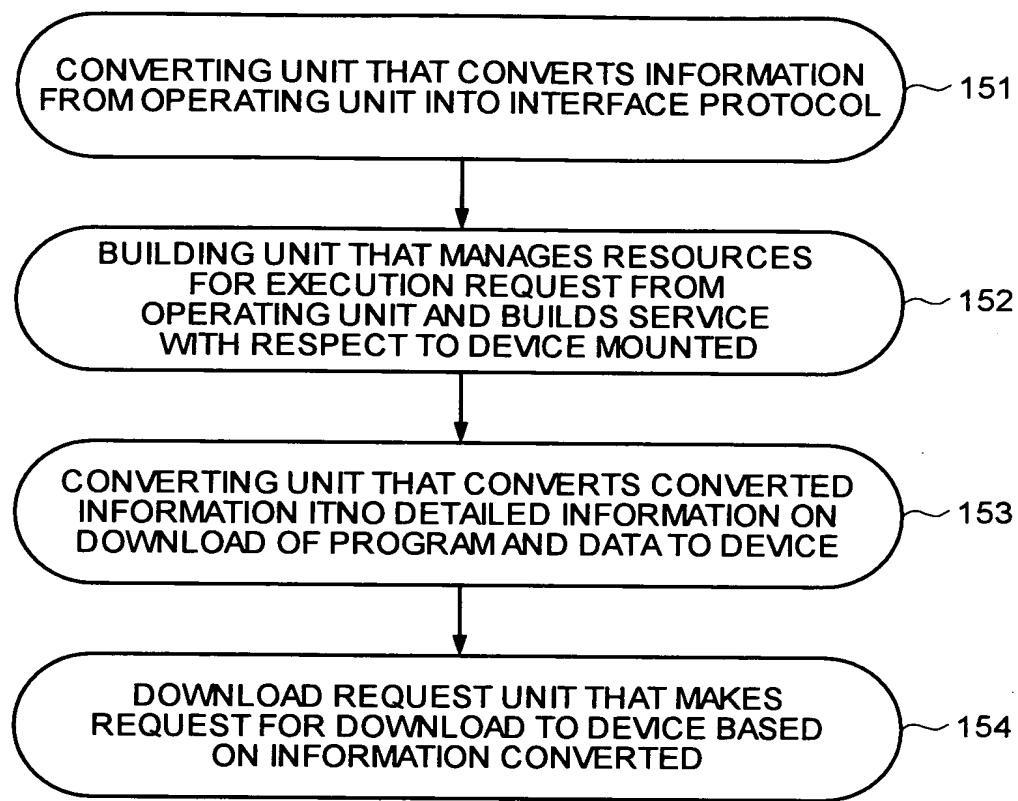


FIG. 15



NEW CONCEPT OF APPARATUS FOR CONTROLLING IMAGE PROCESSING

FIG. 16

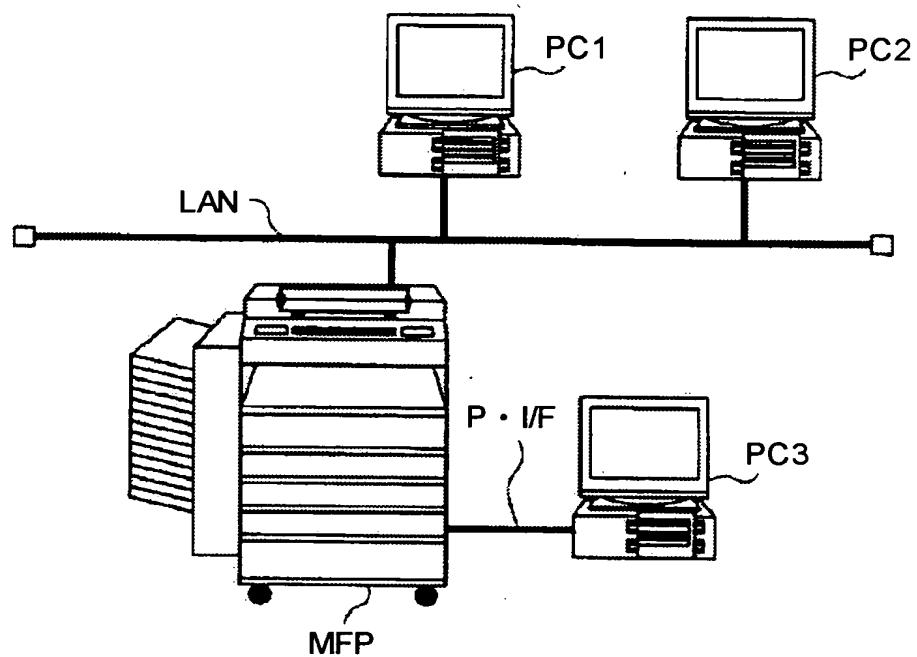


FIG. 17

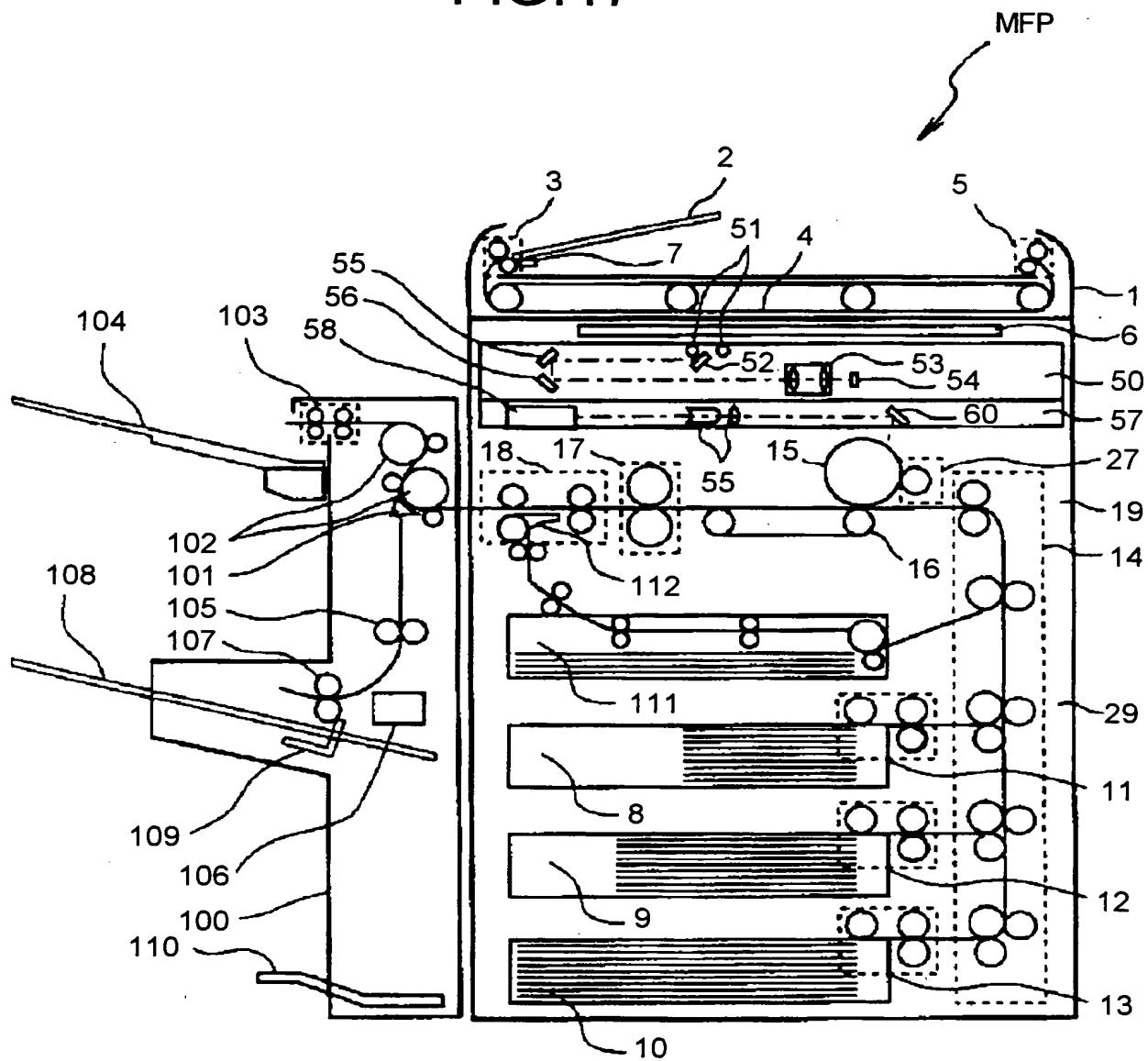


FIG. 18

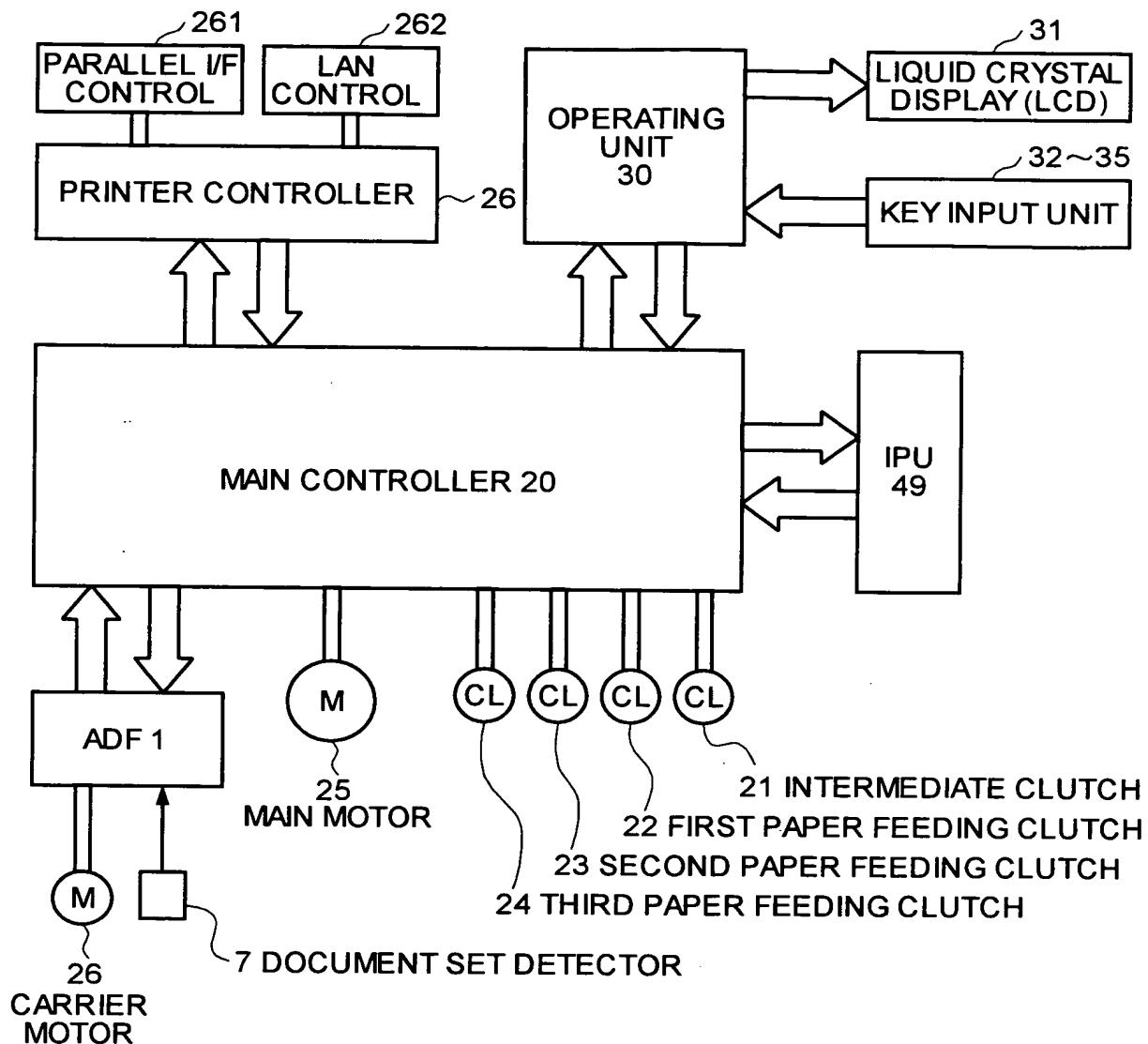


FIG. 19

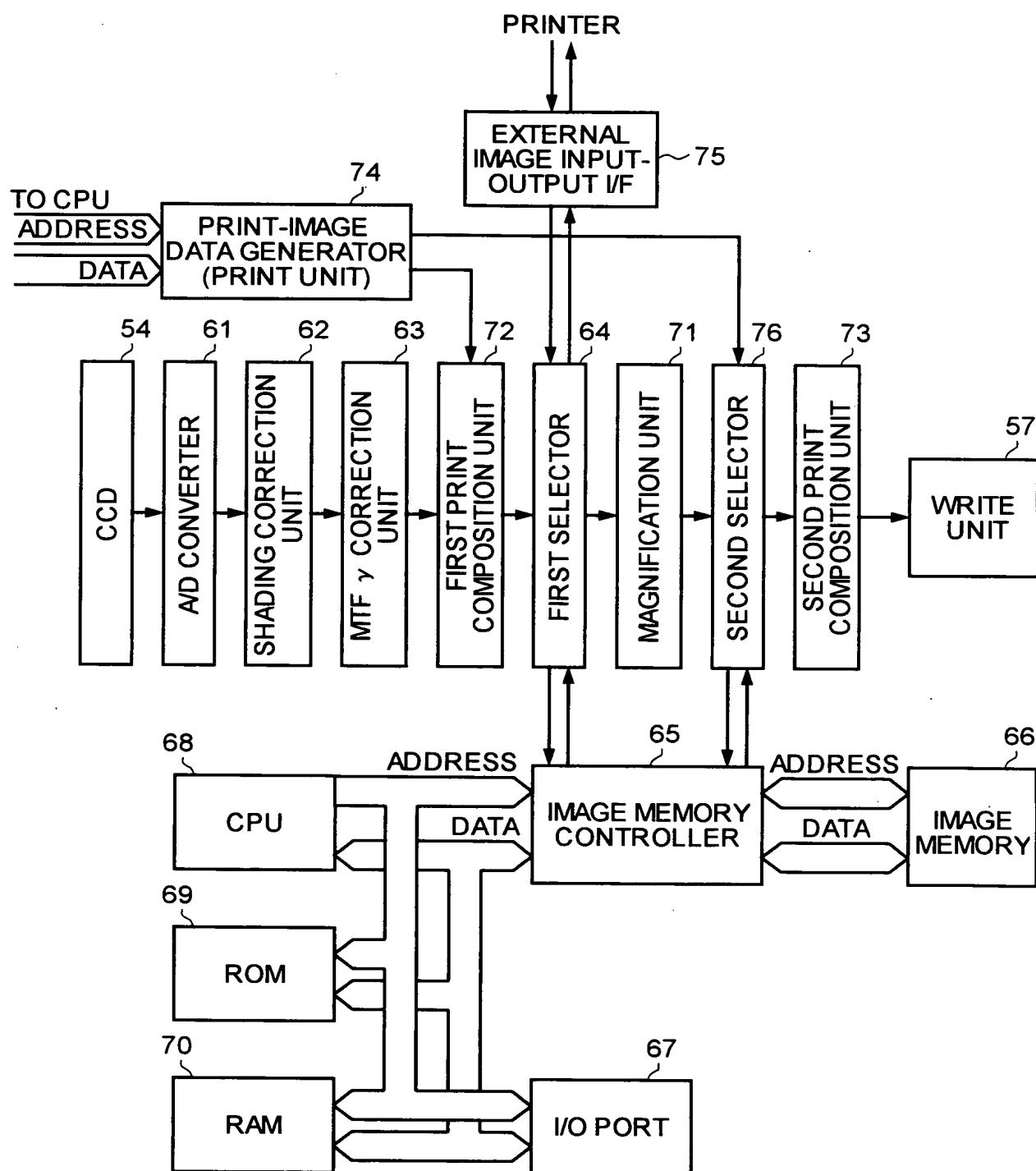


FIG.20A

WHEN EXECUTING PHOTOCOPY

MAIN CONTROL SOFTWARE

502

1. SCAN PROCESS

2. PRINT PROCESS

IMAGE PROCESS
SETTING REQUEST FOR
IMAGE READ BY SCANNER

IMAGE-PROCESS
SETTING REQUEST FOR
MAKING IMAGE SUITABLE
FOR PRINTOUT

APPARATUS FOR
CONTROLLING
IMAGE PROCESSING

503

FIG.20B

WHEN EXECUTING PRINTOUT

MAIN CONTROL SOFTWARE

502

1. PRINT PROCESS

IMAGE-PROCESS
SETTING REQUEST FOR
MAKING IMAGE SUITABLE
FOR PRINTOUT

APPARATUS FOR
CONTROLLING
IMAGE PROCESSING

503

FIG.21

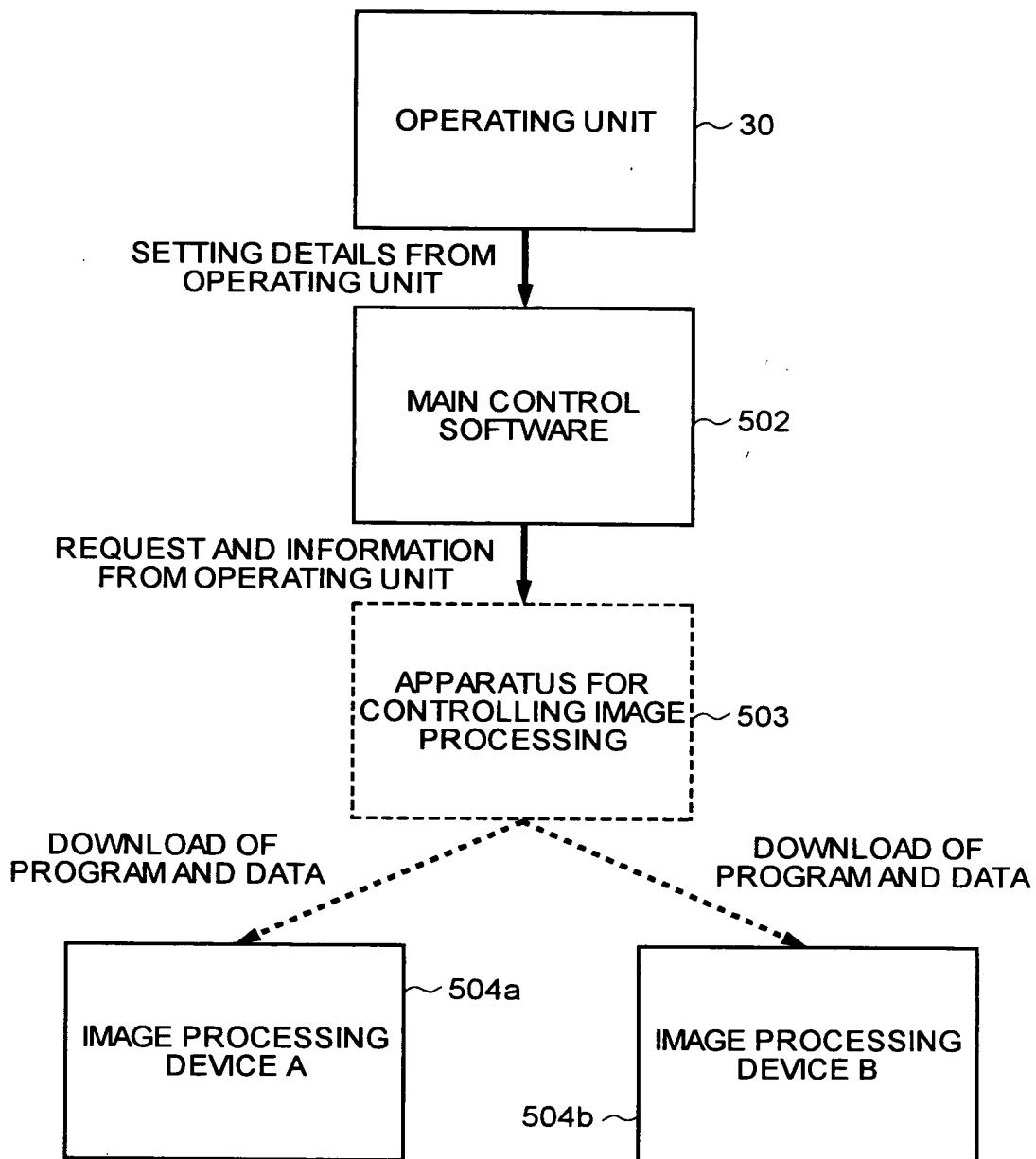


FIG.22

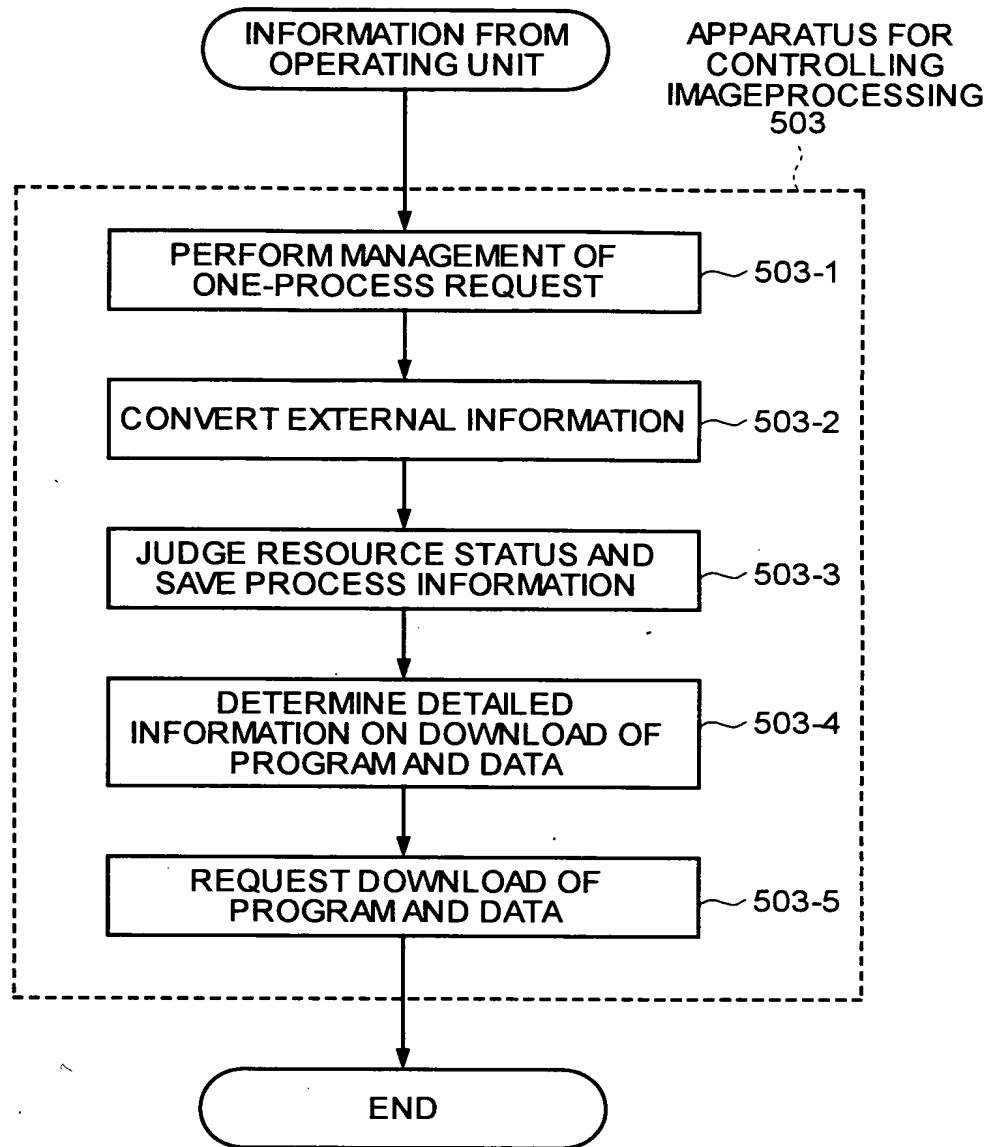


FIG.23

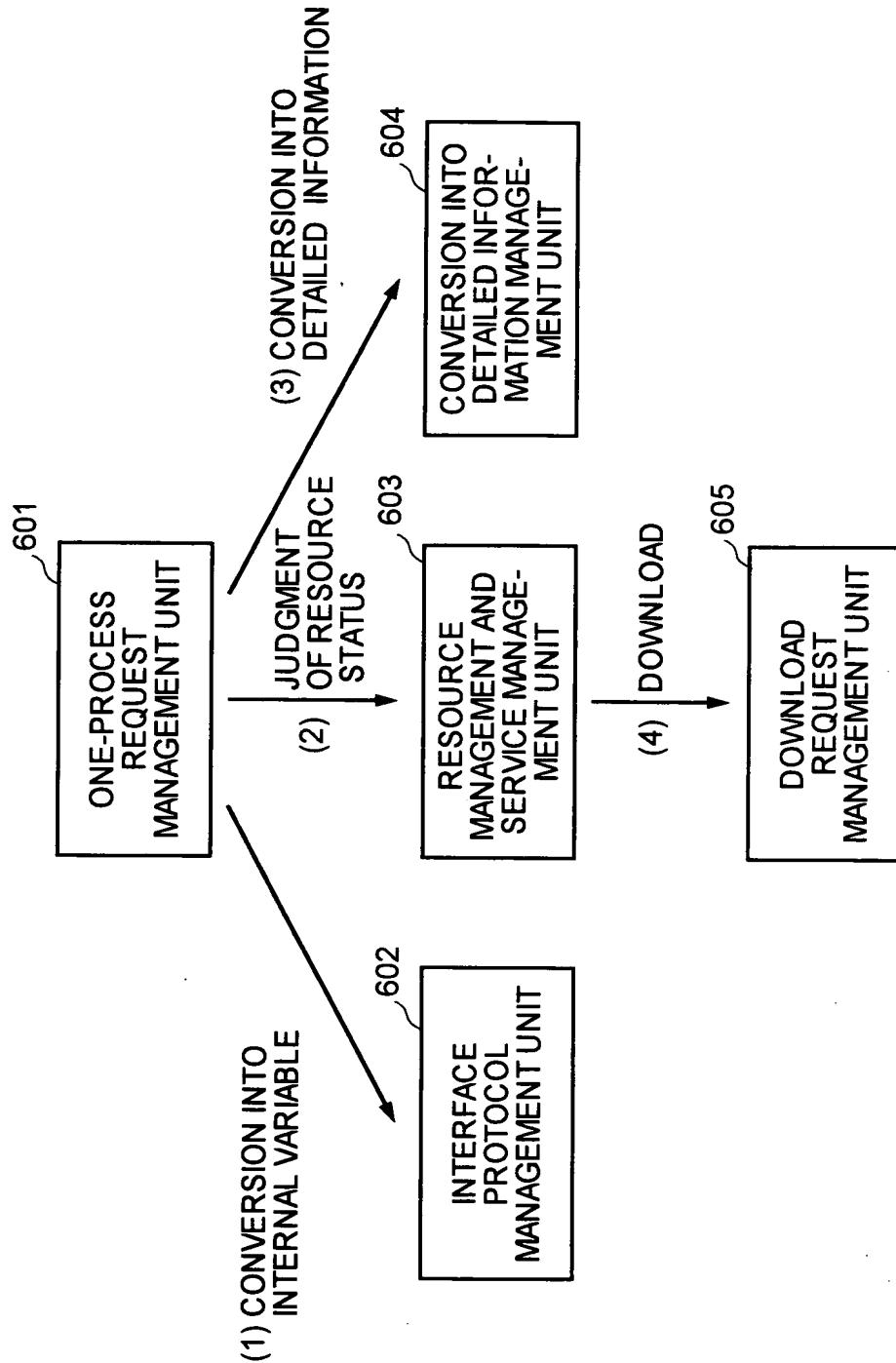


FIG.24

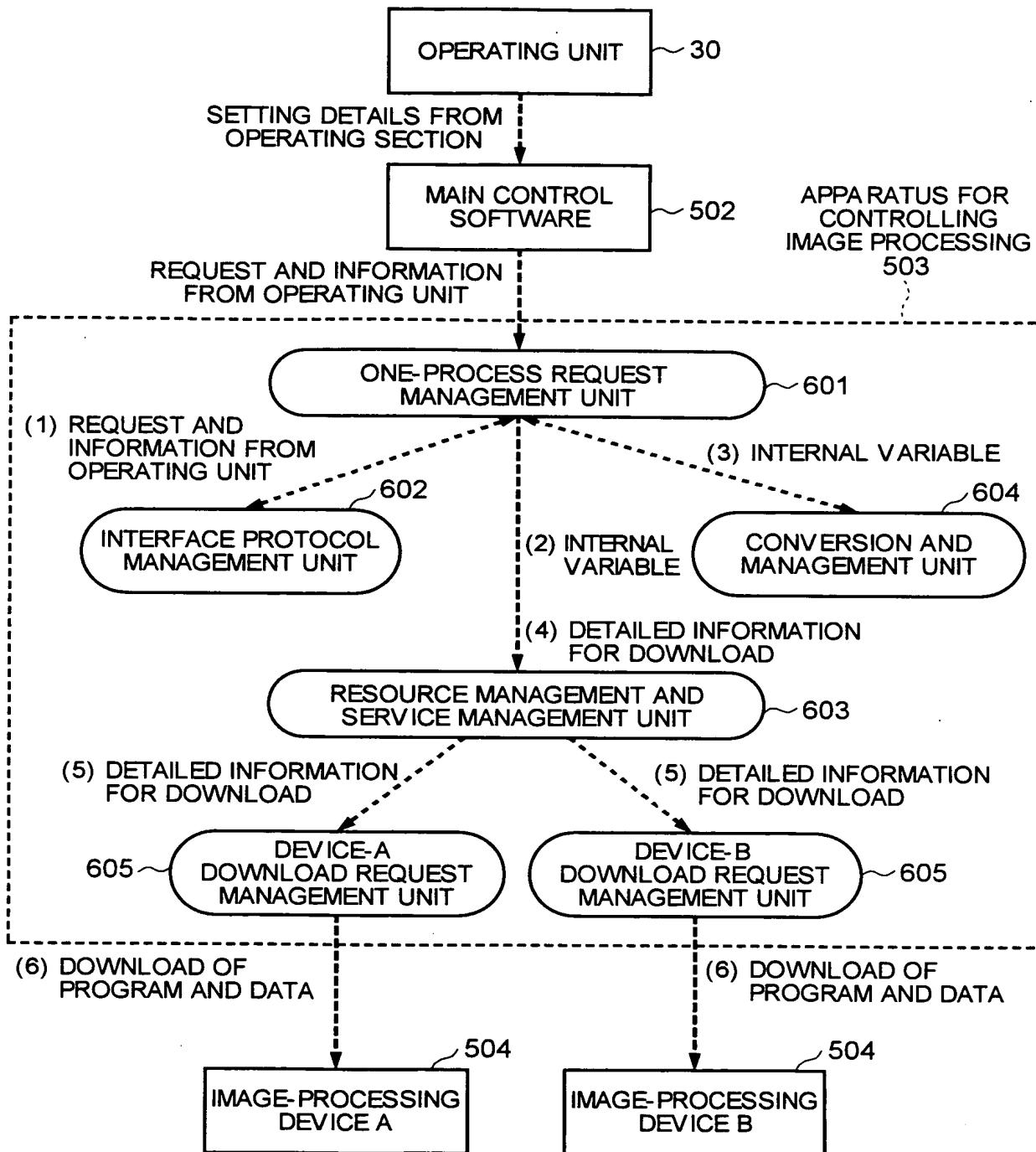


FIG.25A

1. WHEN TURNING POWER ON

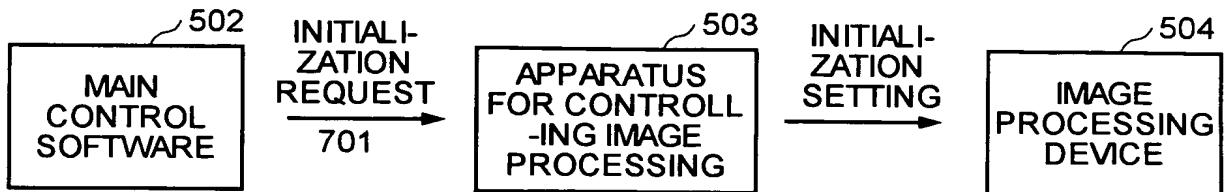


FIG.25B

2. WHEN EXECUTING ONE-PROCESS (SCAN, PRINT)

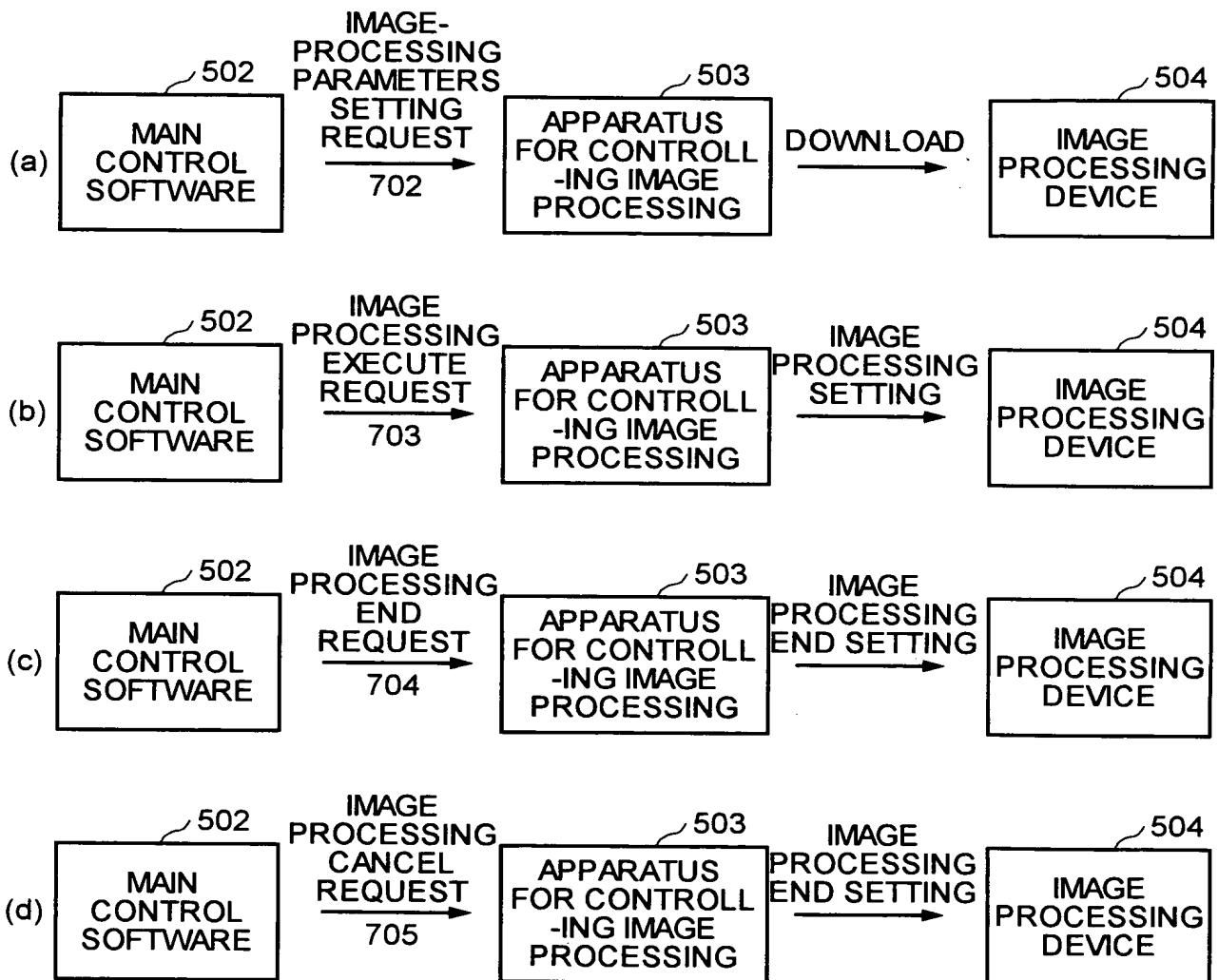


FIG.26

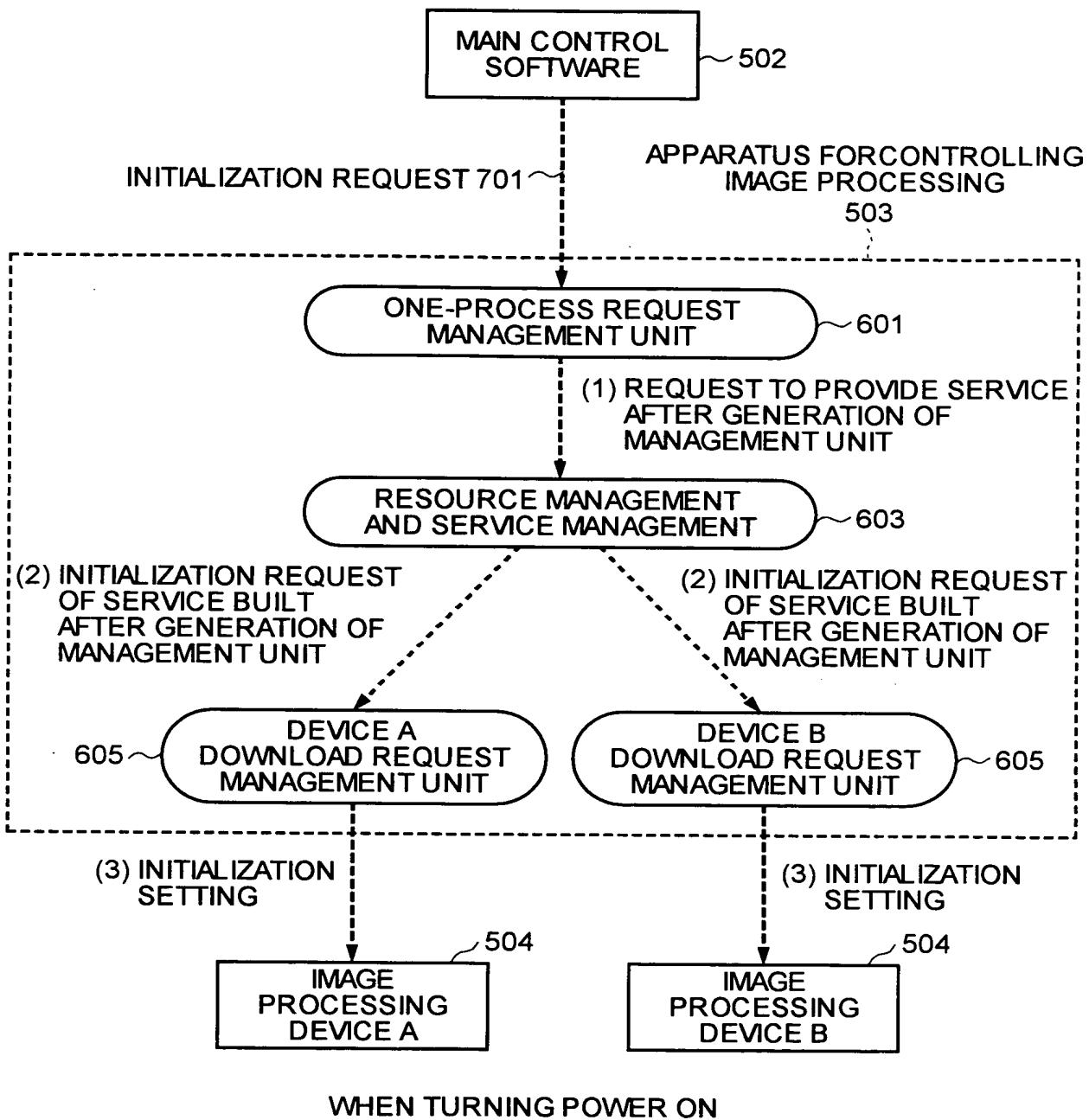


FIG.27

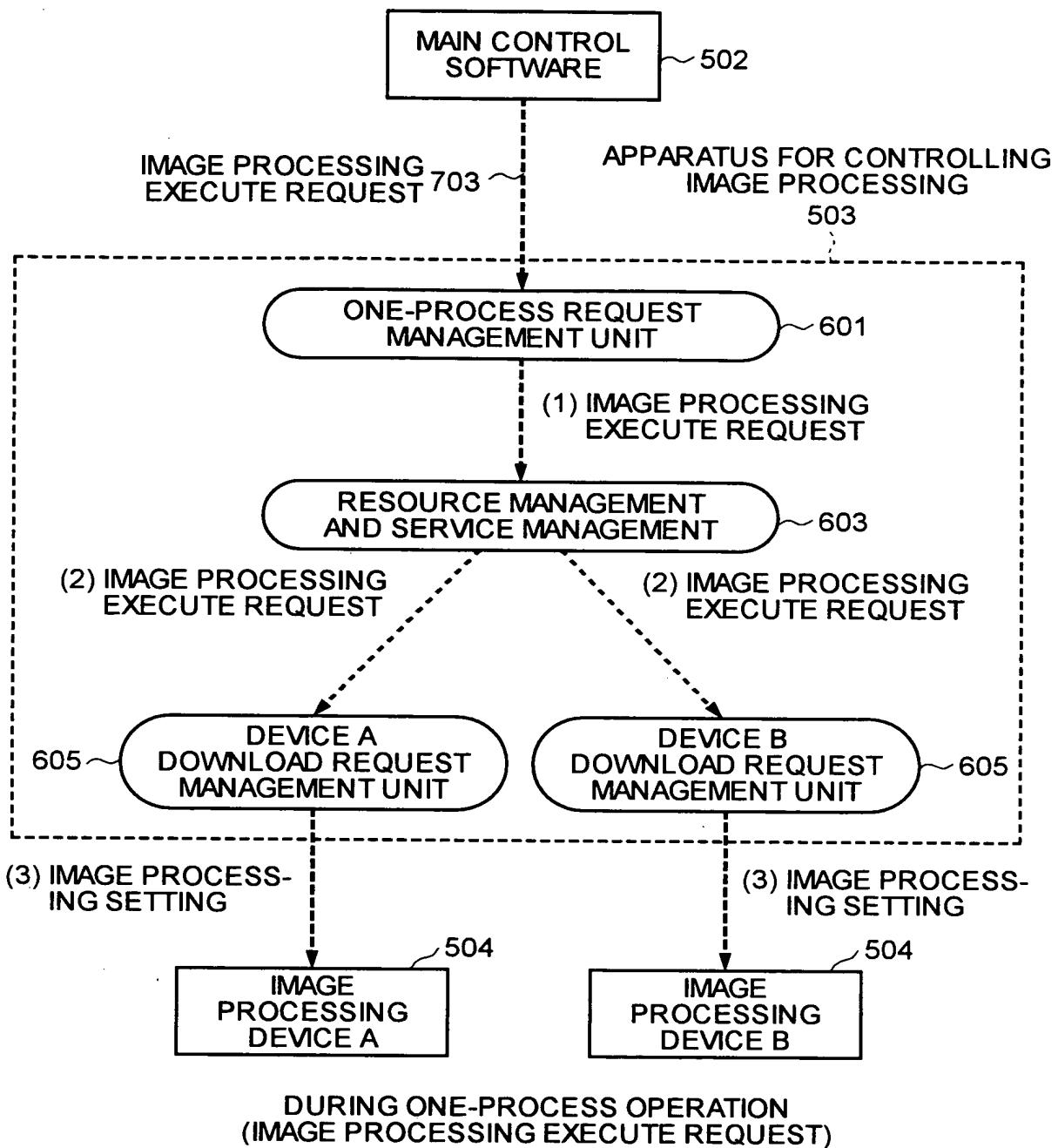


FIG.28

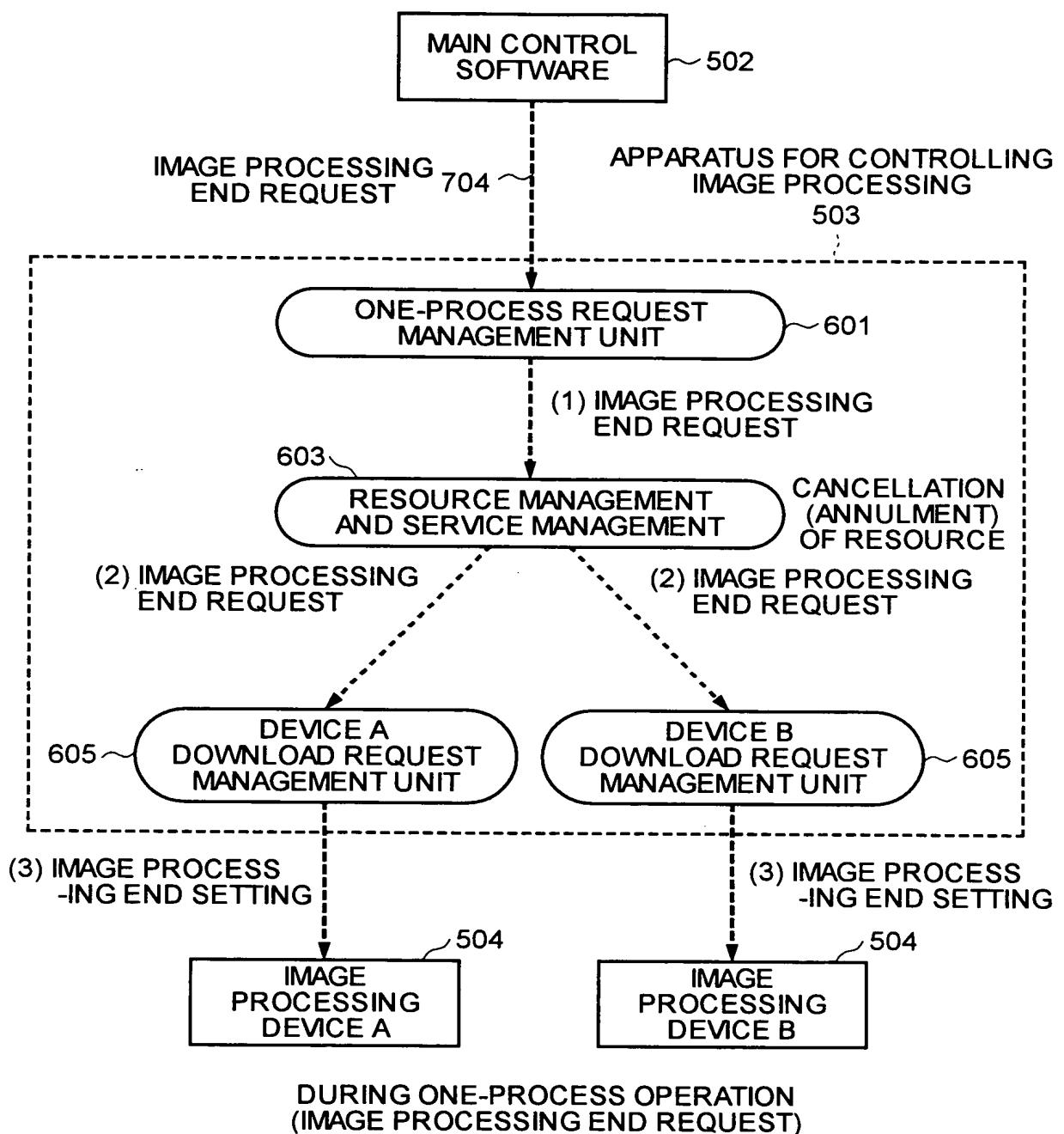


FIG.29

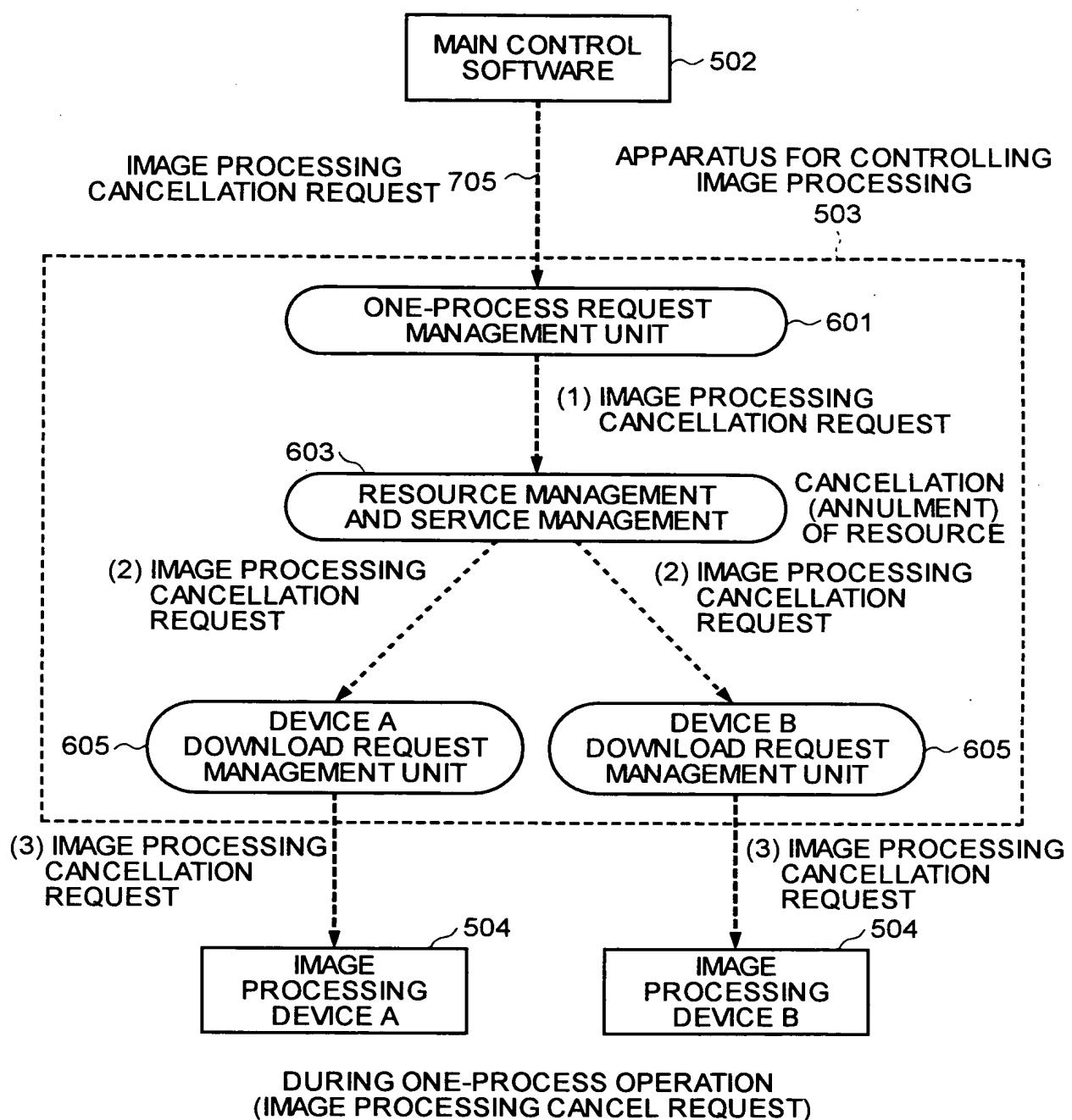


FIG.30A

1. PERFORMED BY MAIN CONTROL SOFTWARE

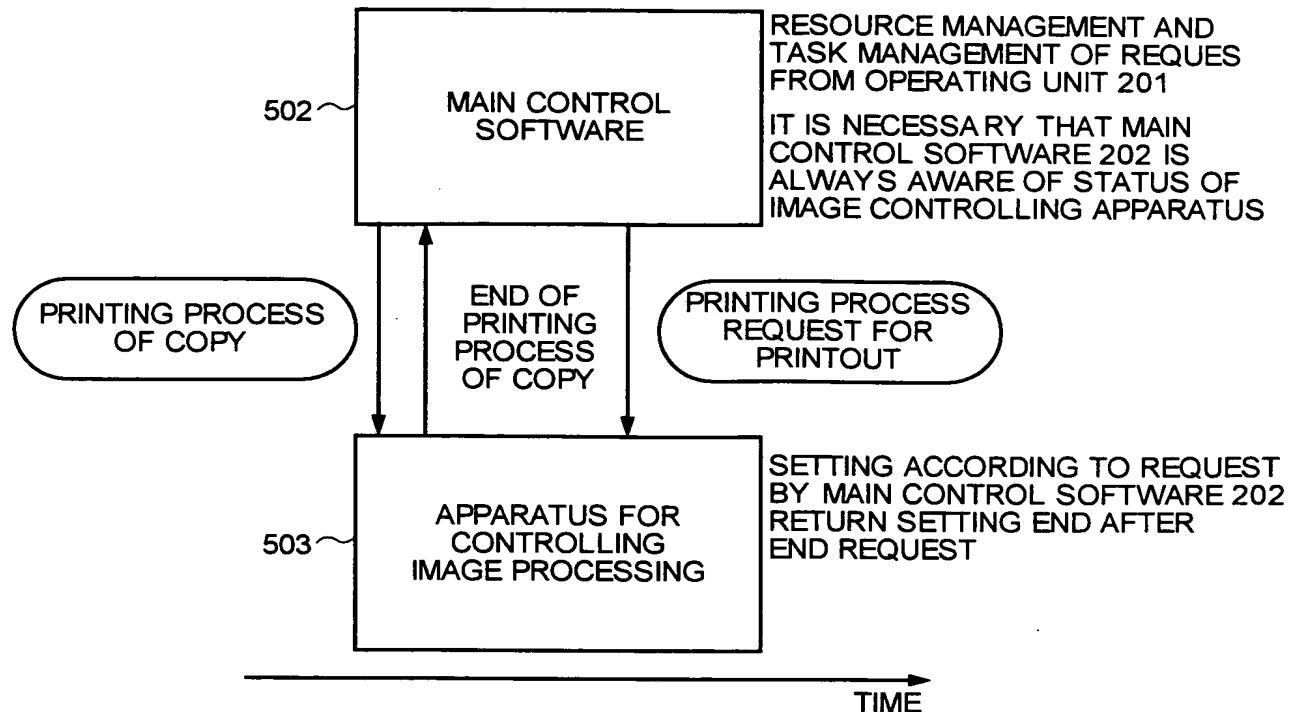
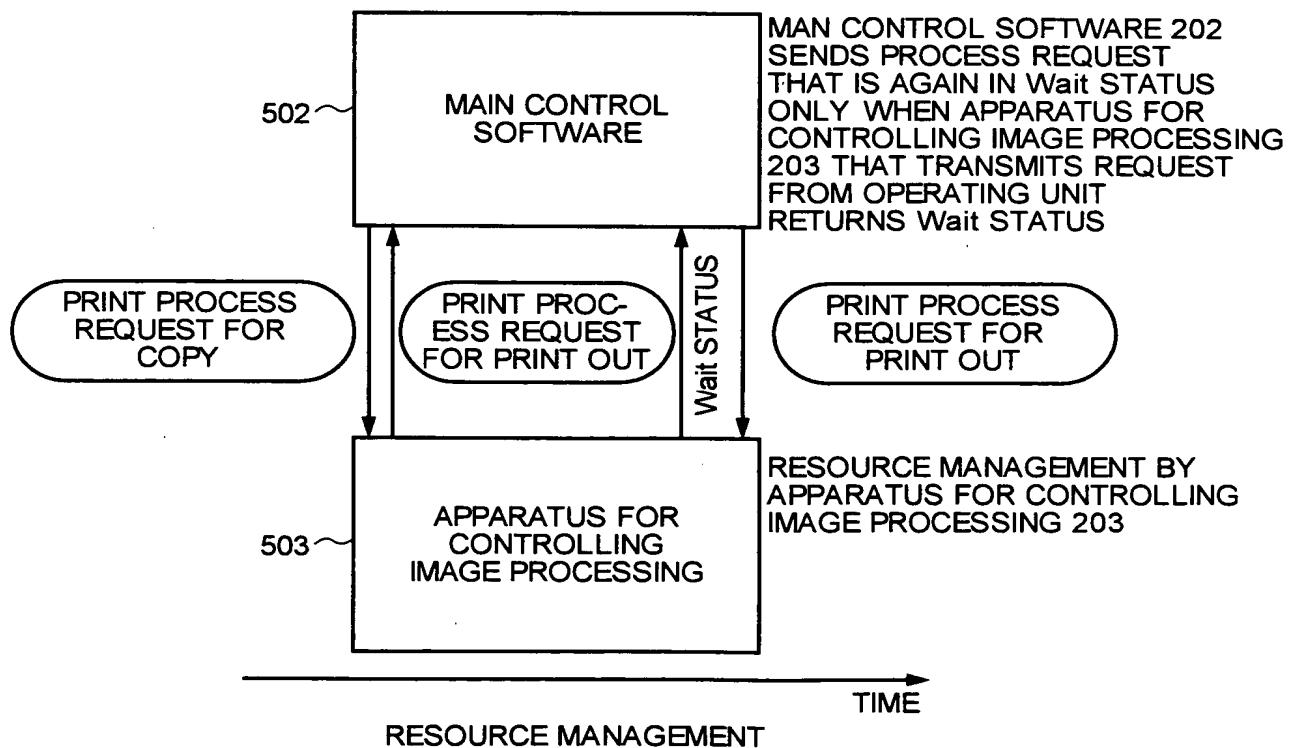


FIG.30B

2. PERFORMED BY IMAGE CONTROLLING APPARATUS 203



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FIG.31A

1. COPY OPERATION

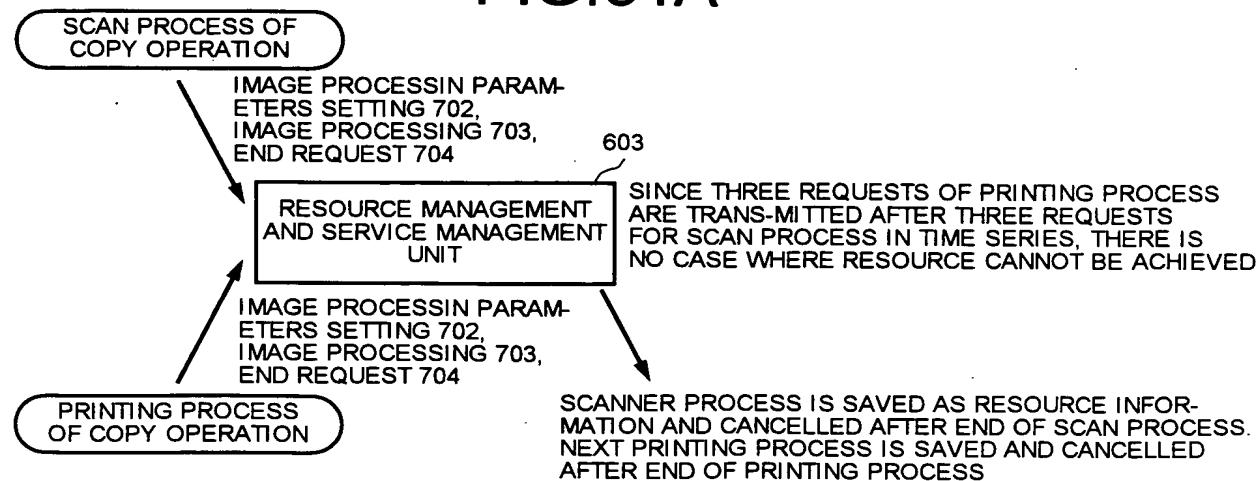


FIG.31B

2. SIMULTANEOUS COPY AND PRINTOUT OPERATION

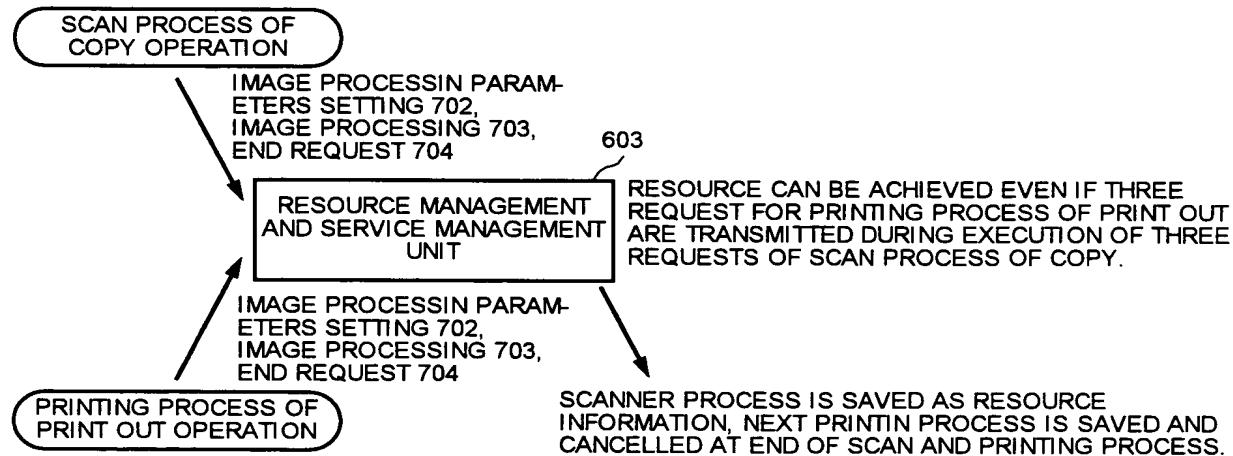


FIG.31C

PRINTING PROCESS OF COPY OPERATION

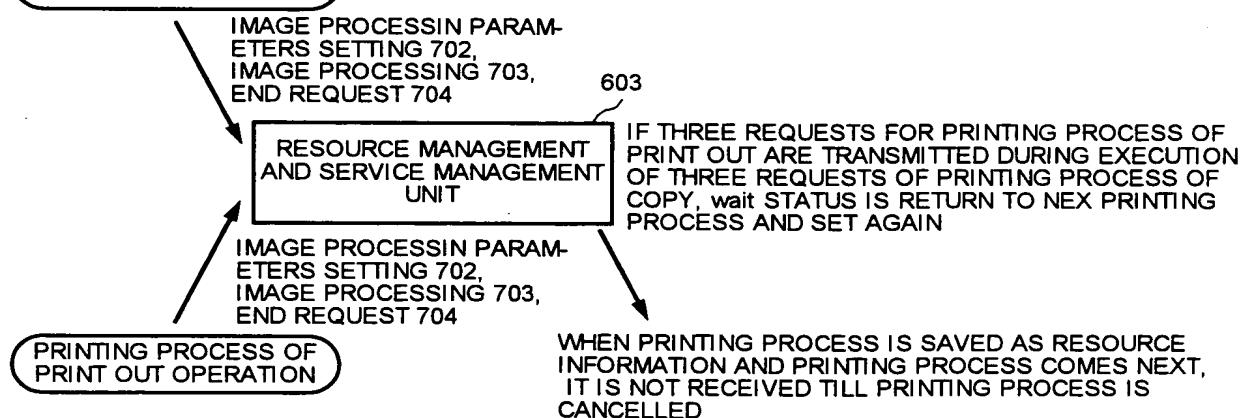
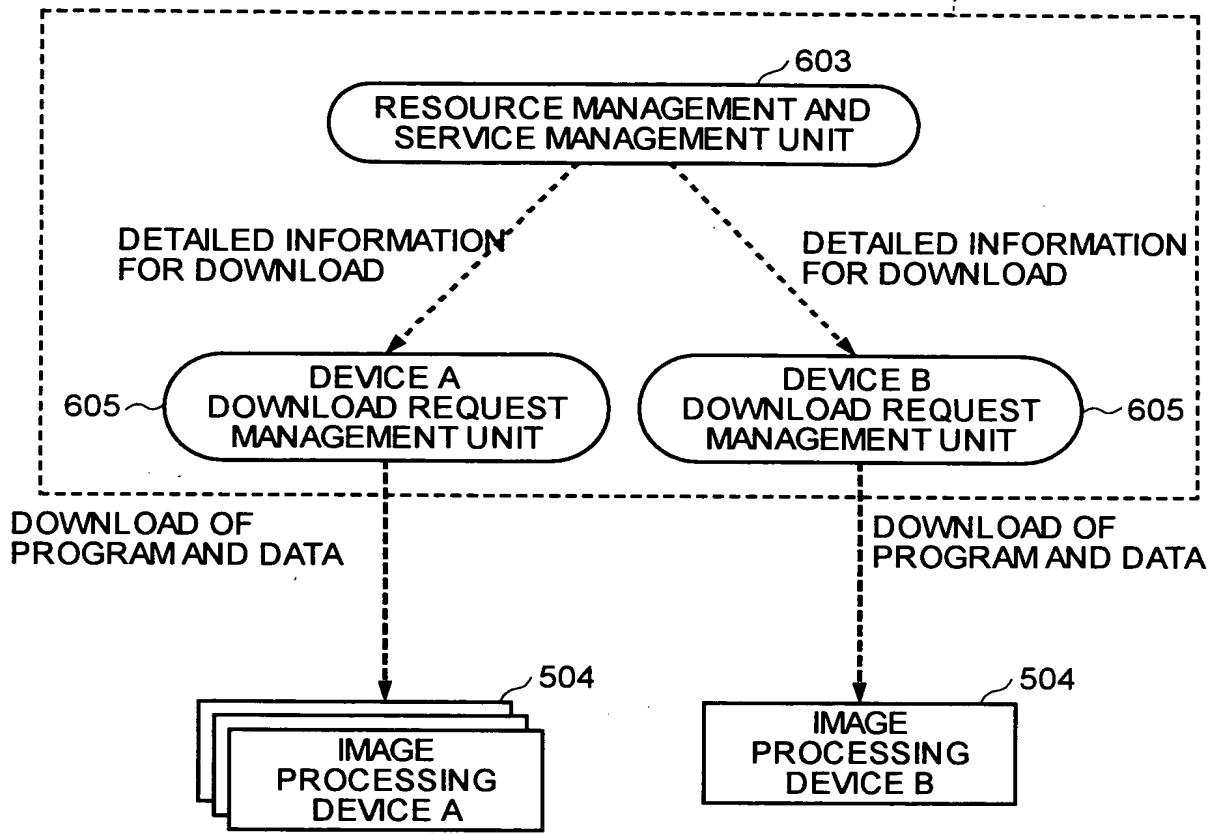


FIG.32

APPARATUS FOR CONTROLLING
IMAGE PROCESSING
503



EXAMPLE OF CONTROL OF SERVICE MANAGEMENT